

Set notation	Meaning
$\{x_1, x_2, \dots\}$	The set with elements x_1, x_2, \dots
$\{x: \dots\}$	The set of all x such that...
$[a, b]$	The closed interval $\{a \leq x \leq b\}$
$[a, b)$	The interval $\{a \leq x < b\}$
$(a, b]$	The interval $\{a < x \leq b\}$
(a, b)	The open interval $\{a < x < b\}$
\cup	Union (or)
\cap	Intersection (and)
∞	Infinity
$-\infty$	Negative infinity

